



EUROPEAN QUALITY



Monocrystalline Photovoltaic Module

Half Cut 445 - 455 W

MPS HC 144



Italian engineering & design
Extended warranties



Ultra-robust module
35 mm frame thickness



Customized production
All Black | Translucent | Standard



Positive tolerance in our
modules with **0/+5 wp**



Staübli connectors
upon request



 **SundaHus**



www.solarday.it

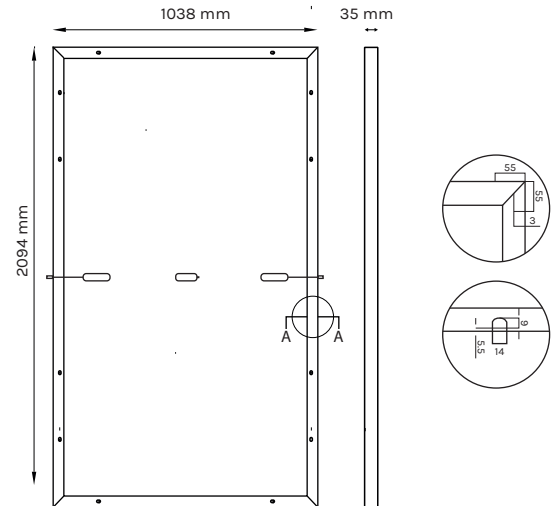
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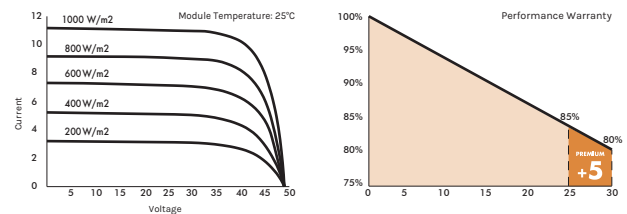
TECHNICAL FEATURES

Cells:	144 (6x24) Monocrystalline Silicon
Available in:	 Half cut
Frontal Glass:	Glass with low iron content - thickness 3,2 mm Capa ARC < 20000 cd/m2 Frontal load (snow) 5400 Pa - Back load (wind) 2400 Pa
Encapsulant:	EVA (Etilen Vinil Acetato)
Backsheet:	Polymer sheet
Frame:	Black/Silver anodized aluminum 15 micron Grounding holes (For more information please contact our sales team)
Junction Box:	IP68 - 1500 V with 3 by pass diodes Cables length 300 mm - Section: 4,0 mm2 $\pm$ 1% tolerance Fire Class 1 approval (UNI 9177)
Connectors:	MC4 or compatible connector



WEIGHT, DIMENSIONS AND PACKAGING

25 Kg | 2094 mm x 1038 mm x 35 mm | 30 pcs pallet | 720 pcs truck



ELECTRICAL CHARACTERISTICS *

	MPS HC 144 445W	MPS HC 144 450W	MPS HC 144 455W
Pmax (W)	445	450	455
Tolerance	0/+5 W	0/+5 W	0/+5 W
Vmpp (V)	41.21	41.40	41.60
Impp (A)	10.80	10.87	10.94
Voc (V)	49.79	49.98	50.17
Isc (A)	11.48	11.54	11.60
V	1500	1500	1500
Eff (%)	20.44	20.67	20.90
A	20	20	20

*NOTE: Read the instruction manual of this product and follow the indications STC. Values are valid for: 1000W/m2, AM 1.5 and cells temperature of 25°C. Measurement tolerance $\pm$ 3% (AAA Solar simulation -IEC 60.904-9-). All the information of this brochure may be amended without notice by Solar day. Consult the installation manual for more information.

TEMPERATURE CHARACTERISTICS

Temperature Coeff. of Voc:	-0,28 % / °C
Temperature Coeff. of Isc:	+0,05 % / °C
Temperature Coeff. of Pmax:	-0,36 % / °C

OPERATIVE CHARACTERISTICS

Operating Temperature:	from -40°C to +85°C
Hailstorm Resistance:	Ø 25 mm, 86 Kg/h
NMOT*:	43 $\pm$ 2 °C

*Nominal Module Operating Temperature: Irradiance 800W/m2; Air 20°C; Wind speed 1m/s

WARRANTIES

20 YEARS
Product Warranty

25 YEARS
Linear Warranty

PREMIUM
+5

DISTRIBUTOR SOLARDAY



SOLARDAY CERTIFICATES

IEC 61215:2016 | EN 61730-1:2016 | EN 61730-2:2016
UNI 9177 Class 1 Fire Class | FIRE TEST MST23 CLASSE C
IEC 62716:2013 | IEC 61701:2011
ECOEM

UNI EN ISO 9001:2015
UNI EN ISO 14001:2015
UNI EN ISO 45001:2018
CE

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